

PRODUCT SERIES: Santak Castle Series

MODEL : 3C15KS-LCD

REF. No.: B-WR1-235-217A

Page No.

1 OF 4

<u>INPUT</u>

Nominal Voltage : 380VAC/220VAC

Phase : Three phase and Neutral with ground (4W + G)

or Single phase with ground (2W + G)

Power Factor : ≥ 0.99

Voltage Range : 208 ~ 476VAC/120~275VAC

Volt. Low Detection / Comeback : 208/242VAC | 120/140VAC, at load ≤ 50%;

260/286VAC | 150/165VAC, at 50% < load \leq 70%; 286/312VAC | 165/180VAC, at 70% < load \leq 90%;

304/329VAC | 176/190VAC, at load > 90%;

Volt. High Detection / Comeback: 476/459VAC | 275/265VAC

Nominal Frequency : 50/60Hz

Frequency Range : 40 ~ 70Hz

Freq. Low Detection / Comeback: 40Hz / 40.5Hz

Freq. High Detection / Comeback: 70Hz / 69.5Hz

THDi : < 3% (With R full load at Line normal)

Nominal RMS Current : 24A

Protection : 63Amp Breaker
Connection : Terminal Block

BYPASS

Output before UPS power-on : Default "YES", can be configured to "NO" through

Winpower software

Voltage Range : 187 ~ 264VAC

Bypass Low Detection : Default 187VAC, can be set to 176 ~ 209VAC through

Winpower software

Bypass Low comeback : Bypass Low voltage detected plus 10VAC

Bypass High detection : Default 264VAC, can be set to 231 ~ 264VAC

through Winpower software

Bypass High comeback : Bypass High voltage detected minus 10VAC

Bypass Frequency Range : Default 50/60Hz ± 8%, can be set 50/60Hz ± (1%~10%)

Protection : 100Amp Breaker



PRODUCT SERIES: Santak Castle Series MODEL

: 3C15KS-LCD

Page No. 2 OF

REF. No.: B-WR1-235-217A

OUTPUT

Power Capacity 15kVA / 13.5kW

Power Factor 0.9

Voltage : 220VAC, can be set 230/240VAC

Voltage Regulation : ±1%

Waveform : Sine wave

Voltage Distortion $\leq 2\%$ (Full linear load)

≤ 4% (Full RCD load)

Frequency : Battery mode: 50/60Hz ±0.05Hz

Line mode: Synchronized to 50/60Hz ±4Hz

Slew Rate : < 1.0 Hz/sec

: < 2° Phase Lock Error to Line

: 60ms (R load from 0% to 100% and vice versa) Transient Recovery

Current Crest Ratio 3:1

Efficiency : Up to 93.5% at battery mode

> Up to 94% at line mode Up to 98% at ECO mode

Overload Capability : 105% < Load ≤ 125%, transfer to bypass mode

after 10 min (0°C ~ <30°C) or 1 min (30°C ~ 40°C) Bypass over load > 30 minutes then turn off output;

125% < Load ≤ 150%, transfer to bypass mode after 30s Bypass over load > 1 minutes then turn off output;

Over 150%, transfer to bypass after 0.5s

Bypass over load > 30 seconds then turn off output;

Nominal Output Current 68A

Short Circuit Protection : Cut off output within 100ms in Line mode & Battery mode;

Input Breaker in Bypass mode

Bypass Output without turning on: Yes

Maintenance Bypass Switch Option

Connection : Terminal Block



PRODUCT SERIES : Santak Castle Series MODEL : 3C15KS-LCD

Page No.

3 OF 4

REF. No.: B-WR1-235-217A

BATTERY AND CHARGER

Type : Valve Regulated Lead Acid (VRLA), Maintenance Free

Rating : Option

Quantity : 20 pieces per string (N), (adjustable: 16/18)

Nominal DC Voltage : 240VDC (adjustable: 192/216VDC)

Backup Time : Depends on the external battery capacity

Auto Shutdown Voltage : 11VDC*N ±2VDC when load < 1kW

9.5VDC*N ± 2VDC when load > 1kW

Protection : Fast-acting Fuse

Floating Charging Voltage : 13.5VDC*N

Initial Charging Current : 4A

Recharge Time : Depends on the external battery capacity

Over Voltage Protection : 14.7VDC*N ± 1%

Leakage Current : < 3.5mA

Connection : Terminal Block

INTERFACE

Control Panel : Power On/Off, Self-test/Alarm silence

Indicators : Graphical LED & LCD display:

Line, Battery, Bypass, Inverter, Load level/Battery level,

Fault

Diagnostics : Full system self test on power up

Auto Restart Function : Auto restart while AC source restored after discharge

shutdown

DC Power-on Function : On-battery power on

Audible Alarm : Battery mode: Beeps every four seconds

Battery low: Beeps every second Overload: Beeps twice every second Bypass: Beeps every two minutes

Fault: Beeps continuously

Communications

- DB-9 Port : RS232 interface

- Intelligent Slot (SNMP) : Available

(Options: NMC, AS400 or CMC Card)

- Parallel Port : Option

- Emergency Power Off(EPO) : Option

Cooling : Force air cooling



PRODUCT SERIES: Santak Castle Series **MODEL**

: 3C15KS-LCD

Page No.

OF

REF. No.: B-WR1-235-217A

PARALLEL FUNCTION

Parallel card : Option

Number of UPS in Parallel : Up to 3 units

TRANSFER TIME

Utility Power Failure : 0 ms Bypass to Inverter and vice versa: 0 ms

ECO to Inverter and vice versa : < 4 ms

Auto Transfer : Automatically re-transfer to Inverter mode after overload

is cleared

ENVIRONMENTAL

Operating Temperature $0 \sim 40^{\circ}$ C

: -25°C ~ 55°C Storage Temperature

Humidity : 20% ~ 90%, Non-condensing

Altitude : < 1000 m

STANDARD & SAFETY

Audible Noise : ≤ 50dB, at 1-meter distance in front of the front panel

(Exclusive of Buzzer)

EMC : IEC/EN61000

IEC/EN62040-2

Safety : IEC/EN62040-1

MECHANICAL FEATURES

Unit

Dimensions: W x D x H (mm) : 248 x 500 x 616 mm

Weight (Kg) : 30.5 Kg

Packaging

Dimensions: W x D x H (mm) : $380 \times 680 \times 705 \text{ mm}$

Weight (Kg) : 35.5 Kg

Specifications are subject to change without notice.